

**To:** DeYoung, Robyn[DeYoung.Robyn@epa.gov]  
**Cc:** Chris Lamie[Chris.Lamie@erg.com]; Jeremy Fisher[jfisher@synapse-energy.com]  
**From:** Patrick Luckow  
**Sent:** Thur 7/9/2015 2:56:57 PM  
**Subject:** RE: TSD for projecting CO2 performance

We can put something together – I think it will be quite similar to the EE section, with the addition of the annual performance characteristics. A couple questions:

- a) If we're just focused on MWh impacts (and not CO2) the hourly load shape may not be necessary. Is this the case?
- b) I don't see any mention of interstate impacts – is the focus here purely on quantifying the amount of energy produced, not the amount of energy displaced?

Thanks,

Patrick

**From:** DeYoung, Robyn [mailto:DeYoung.Robyn@epa.gov]  
**Sent:** Thursday, July 09, 2015 10:18 AM  
**To:** Patrick Luckow  
**Cc:** Chris Lamie; Jeremy Fisher  
**Subject:** TSD for projecting CO2 performance

Hi Patrick,

We want to pull together language that describes how one would estimate the RE impacts of a RPS or the installation of 'qualifying RE' projects (e.g., wind or solar). Do you have anything handy or do you know of a good reference where I could describe an appropriate methodology for projecting the energy impacts of these types of instances?

For example, if you have a group of wind projects and you want to know the MWh impacts, would you just need to know the capacity of the project, estimated capacity factor and if it's available the load shape of the RE technology?

Alternatively a model could predict what wind/solar and other resources may come online in the future based on the cost of the different RE technologies.

I need to write something up that describes these possible methods. Is that something you can help me with this week? I'd need something by Friday COB.

Attached is the current draft of the TSD. You can focus on the Section: Applied Considerations for Treatment of Different Types of State Plan Approaches or Measures See the EE/ EERS section. We'd like something comparable for RE.

Feel free to give me a call if you have questions.

Robyn